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(cast\$3 or mold\$3) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel)) and (die near10 (insert or sprue or runner)) and ((portion or half or halves) near10 (insert or mandrel or sprue))	19

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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L27</u>	(cast\$3 or mold\$3) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel)) and (die near10 (insert or sprue or runner)) and ((portion or half or halves) near10 (insert or mandrel or sprue))	19	<u>L27</u>
<u>L26</u>	((cast\$3 or mold\$3) near10 (sprue or runner)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel)) and (die near10 (insert or sprue or runner)) and ((portion or half or halves) near10 (insert or mandrel or sprue))	15	<u>L26</u>
<u>L25</u>	((cast\$3 or mold\$3) near10 (sprue or runner)) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel)) and (die near10 (insert or sprue or runner)) and	7	<u>L25</u>

	((portion or half or halves) near10 (insert or mandrel or sprue))		
<u>L24</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel)) and (die near10 (insert or sprue or runner)) and ((portion or half or halves) near10 (insert or mandrel or sprue))	7	<u>L24</u>
<u>L23</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel)) and (die near10 (insert or sprue or runner)) and ((portion or half or halves) near10 (insert or mandrel or sprue))	7	<u>L23</u>
<u>L22</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel or core)) and (die near10 (insert or sprue or runner)) and ((portion or half or halves) near10 (insert or mandrel or sprue))	16	<u>L22</u>
<u>L21</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel or core)) and (die near10 (insert or sprue or runner))	19	<u>L21</u>
<u>L20</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel or core)) and (die near10 (insert or sprue))	11	<u>L20</u>
<u>L19</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel or core))	73	<u>L19</u>
<u>L18</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular or hollow)) and ((sprue or runner) near10 (insert or mandrel))	25	<u>L18</u>
<u>L17</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular)) and ((sprue or runner) near10 (insert or mandrel))	22	<u>L17</u>
<u>L16</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and ((sprue or runner) near10 (channel or orifice or tube or tubular))	291	<u>L16</u>
	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj		

<u>L15</u>	mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and (hot adj chamber) and ((sprue or runner) near10 (channel or orifice or tube or tubular))	4	<u>L15</u>
<u>L14</u>	17 and ((cast\$3 or mold\$3) near10 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and (hot adj chamber)	40	<u>L14</u>
<u>L13</u>	17 and ((cast\$3 or mold\$3) near20 (sprue or runner)) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and (hot adj chamber)	46	<u>L13</u>
<u>L12</u>	17 and (cast\$3 or mold\$3) and (sprue or runner) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer)) and (hot adj chamber)	52	<u>L12</u>
<u>L11</u>	17 and (cast\$3 or mold\$3) and (sprue or runner) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3))) and ((molten or liquid) adj (metal or plastic or polymer))	1619	<u>L11</u>
<u>L10</u>	17 and (cast\$3 or mold\$3) and (sprue or runner) and ((inject\$3 adj mold\$3) or (diecast\$3 or (die adj cast\$3)))	4331	<u>L10</u>
<u>L9</u>	17 and (cast\$3 or mold\$3) and (sprue or runner)	8049	<u>L9</u>
<u>L8</u>	17 and (cast\$3 or mold\$3)	76678	<u>L8</u>
<u>L7</u>	11 or 12 or 13 or 14 or 15 or 16	170018	<u>L7</u>
<u>L6</u>	(((B22D035/\$)!.IPC.))	2101	<u>L6</u>
<u>L5</u>	(((B22D033/\$)!.IPC.))	1005	<u>L5</u>
<u>L4</u>	((B22D017/\$)!.IPC.)	21024	<u>L4</u>
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1	IS&R	567	(164/137).CCLS.	USPAT; US-PGPUB; EPO; JP ; DERWENT	2003/07/19 16:40
2	IS&R	659	(164/342).CCLS.	USPAT; US-P PUB; EP ; JP ; DERWENT	2003/07/19 13:26
3	IS&R	490	(164/133).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/19 14:08
4	IS&R	197	(164/316).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/19 14:26
5	IS&R	652	(164/113).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/19 15:10
6	IS&R	808	(164/312).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/19 15:52
7	IS&R	572	(425/549).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/19 15:53
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9	IS&R	179	("2068875") or ("2113410") r ("2293087") r ("3019495") or ("3038220") or ("3270377") or ("3461946") or ("3528478") or ("3608623") or ("3499189") or ("3822856") or ("3941540") or ("3945535") or ("3009218") or ("3789188") or ("4516782") or ("3970821") or ("4231416") or ("4717052") or ("4196855") or ("4386262") or ("4635851") or ("1372843") or ("3270372") or ("3701377") or ("4641702") or ("4981168") or ("4144011") or ("4416604") or ("4593741") or ("4595044") or ("4085791") or	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/19 16:41